REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank) 2. REPORT DATE 3. REPORT T		3. REPORT TYPE AN	YPE AND DATES COVERED O1 JAN 95 TO 31 DEC 95	
*		FINAL 01 JA		
4. TITLE AND SUBTITLE WORKSTATION FOR PROCESS	S ANIMATION AND VIDE	O ANALYSIS	5. FUNDING NUMBERS F49620-96-1-0096	
6. AUTHOR(S)				
DR VISHWANATH PRADAS			61102F 3484/US	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) STATE UNIVERISTY OF NEW YORK AT STONY BROOK			AFOSR-TR-96	
DEPARTMENT OF MECHANICAL ENGINEERING STONY BROOK, NY 11794-2300		•	6199	
9. SPONSORING/MONITORING AGENCY	NAME(S) AND ADDRESS(ES)		10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
AFOSR/NM 110 DUNCAN AVE, SUITE BOLLING AFB DC 20332-			F49620-95-1-0096	
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION AVAILABILITY STAT			12b. DISTRIBUTION CODE	
APPROVED FOR PUBLIC RE DISTRIBUTION UNLIMITED				
	and the second s	gen a van versiegingsgen einsperendingsgegen (d. 1800) de 1800		
113 ABSTRACT (Maximum 200 words)				

SEE REPORT FOR ABSTRACT

19960520 048

14. SUBJECT TERMS			15. NUMBER OF PAGES
	•		16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCALSSIFIED	UNCLASSIFIED	UNCLASSIFIED	SAR

NSN 7540-01-280-5500

DTIC QUALITY INSPECTED

Standard Form 298 (Rev 2 Prescribed by ANSE 3rd (39-18 298-102

FINAL REPORT for AFOSR Grant No. F496209510096

Project Title: WORKSTATION FOR PROCESS ANIMATION AND VIDEO ANALYSIS

As proposed, the infrastructure for computation, process animation and graphical analysis has been greatly improved by acquiring new equipment in the Process Modeling Laboratory. A silicon Graphics Indigo 2 workstation with enhanced RAM and storage capability, a Tektronix Dye-sublimation Color Printer (Model Phaser 440) and two SUN X-terminals together with many other peripheral devices were purchased from this grant. Special software have been acquired to create process animation videos and graphical data analysis. A special algorithm and computer code has also been developed in-house to analyze data from the experimental videos, particularly for temperature field visualization and calculations of temperature gradients and fluctuations. Results obtained using these equipment have been presented at several technical meetings including AFOSR Grantees Conference, ASME meetings and crystal growth conferences.